

IN THE CLAIMS

Please cancel claims 18 and 19.

Please rewrite claims 16 and 17 in independent format.

Please amend claims 1, 8, 12 and 17 as follows:

Listing of Claims:

Claim 1. (Currently Amended) A millimeter wave-radar comprising:
an antenna base having a transmission/reception antenna;
a housing fixing the antenna base; and
at least a radome or a radar cover enclosing the antenna base;
wherein the radome or the radar cover is provided with a radio wave
absorbing layer formed through an insert molding process or a double molding
process.

Claim 2. (Previously Presented) A millimeter wave-radar according to
claim 1, wherein the radio wave absorbing layer is provided to a side surface of
the radome or the radar cover.

Claim 3. (Previously Presented) A millimeter wave-radar according to
claim 1, wherein the radio wave absorbing layer has its performance adjusted
according to its position with respect to the transmission/reception antenna.

Claim 4. (Previously Presented) A millimeter wave-radar according to
claim 1, wherein the radio wave absorbing layer has a higher dielectric loss than
that of a material of the radome or the radar cover.

Claim 5. (Previously Presented) A millimeter wave-radar according to
claim 1, wherein the radio wave absorbing layer is a magnetic loss layer.

Claim 6. (Previously Presented) A millimeter wave-radar according to claim 1, wherein the radio wave absorbing layer has a higher dielectric constant than that of a material of the radome or the radar cover.

Claim 7. (Previously Presented) A millimeter wave-radar according to claim 1, wherein the radome and the radar cover use a material with a dielectric constant of 3.0 or lower in a portion thereof corresponding to a front of the transmission/reception antenna.

Claim 8. (Currently Amended) A millimeter wave-radar according to claim 1, wherein the radome and the radar cover use, as a main ingredient in a portion thereof corresponding to a front of the transmission/reception antenna, at least one of polycarbonate, syndiotactic polystyrene, polypropylene and a combination of these materials as a main ingredient and acrylonitrile butadiene styrene (ABS).

Claim 9. (Previously Presented) A millimeter wave-radar according to claim 1, wherein the radio wave absorbing layer is formed of only a layer having a predetermined angle to a surface of the transmission/reception antenna or of a combination of the layer having the predetermined angle and a layer having a predetermined angle to a normal of the surface of the transmission/reception antenna.

Claim 10. (Previously Presented) A millimeter wave-radar according to claim 1, wherein the radio wave absorbing layer is a mesh of less than 1/4 of wavelength.

Claim 11. (Previously Presented) A millimeter wave-radar according to claim 1, wherein the radio wave absorbing layer includes at least one of carbon nanotube, carbon microcoil, shungite carbon, carbon black, expanded graphite, carbon fiber and hexagonal ferrite.

Claim 12. (Currently Amended) A millimeter wave-radar according to claim 1 comprising:

~~an antenna base having a transmission/reception antenna;~~
~~a housing fixing the antenna base; and~~
~~at least a radome or a radar cover enclosing the antenna base;~~

wherein the radome or the radar cover has a greater dielectric constant in a portion thereof corresponding to a side of the transmission/reception antenna than in a portion thereof corresponding to a front of the antenna.

Claim 13. (Previously Presented) A millimeter wave-radar according to claim 12, wherein the radome and the radar cover use in a portion thereof corresponding to a front of the transmission/reception antenna a material with a dielectric constant of 3.0 or lower.

Claim 14. (Previously Presented) A millimeter wave-radar according to claim 12, wherein the radome and the radar cover use, as a main ingredient in a portion thereof corresponding to a front of the transmission/reception antenna, at least one of polycarbonate, syndiotactic polystyrene, polypropylene and a combination of these materials as a main ingredient and ABS.

Claim 15. (Previously Presented) A millimeter wave-radar comprising:
an antenna base having a transmission/reception antenna;
a housing fixing the antenna base; and
at least a radome or a radar cover enclosing the antenna base;
wherein the radome or the radar cover has a dielectric constant which progressively increases from a front of the transmission/reception antenna toward a side of the antenna.

Claim 16. (Currently Amended) A millimeter wave-radar ~~according to claim 15 comprising:~~

an antenna base having a transmission/reception antenna;
a housing fixing the antenna base; and

at least a radome or a radar cover enclosing the antenna base;
wherein the radome or the radar cover has a dielectric constant which progressively increases from a front of the transmission/reception antenna toward a side of the antenna, and wherein the radome and the radar cover use in a portion thereof corresponding to a front of the transmission/reception antenna a material with a dielectric constant of 3.0 or lower.

Claim 17. (Currently Amended) A millimeter wave-radar ~~according to claim 15~~ comprising:

an antenna base having a transmission/reception antenna;
a housing fixing the antenna base; and
at least a radome or a radar cover enclosing the antenna base;
wherein the radome or the radar cover has a dielectric constant which progressively increases from a front of the transmission/reception antenna toward a side of the antenna., and wherein the radome and the radar cover use, as a main ingredient in a portion thereof corresponding to a front of the transmission/reception antenna, at least one of polycarbonate, syndiotactic polystyrene, polypropylene and a combination of these materials as a main ingredient and acrylonitrile butadiene styrene (ABS).

Claim 18. (Cancelled) A method of manufacturing a millimeter wave-radar, wherein the millimeter wave-radar comprises an antenna base having a transmission/reception antenna, a housing fixing the antenna base, and at least a radome enclosing the antenna base or a radar cover enclosing the radome; the manufacturing method integrally forming into a one-piece structure the radome or radar cover and a radio wave absorbing layer through an insert molding or double molding process.

Claim 19. (Cancelled) A method of manufacturing a millimeter wave-radar, wherein the millimeter wave-radar comprises an antenna base having a transmission/reception antenna, a housing fixing the antenna base, and at least a radome enclosing the antenna base or a radar cover enclosing the radome; the